

SUMMIT
MACHINE TOOL LLC



CNC HORIZONTAL BORING MILL

HBMC-4 CNC SERIES

Whenever metal must be machined efficiently and with precision, **Summit Horizontal CNC Boring Mills** provide a cost effective solution. Summit's series of CNC HBMs incorporate many advanced construction features, utilizing the latest technologies to ensure high performance and to meet the ever increasing demand for greater productivity.

The **Summit Model HBMC-4 CNC** contains more standard features than similar machines on the market. Summit HBM's are versatile, durable, heavy-duty, and user-friendly machines that will provide you years of trouble-free operation.

KEY FEATURES & ACCESSORIES

- Hydraulic tool clamping
- Automatic Lubrication System
- Hardened and precision ground ways (HRC 50-58)
- Telescoping steel way covers on horizontal ways
- Ball screws on X, Y, W & Z axis
- Coolant system
- Screw Type Chip Conveyor
- Spindle oil chiller
- Portable MPG handwheel
- Fanuc Oi Control is Standard (Fagor & Seimens Controls Are Also Available)



ROTARY TABLE

- Servo driven built-in indexing table 39.4" x 39.4"
- High precision absolute angle encoder for closed loop feedback
- Minimum input 1 degree, 360 degree rotation
- Maximum table load capacity 6,600 lbs
- Hydraulic clamping system

HBMC-4 CNC MACHINE FEATURES & BENEFITS



FANUC OI CNC CONTROL FEATURES

- Full 4 Axis Simultaneous Movement
- User-Friendly Environment
- Large Parts Program Capacity
- High Speed Ethernet
- Advanced Interpolation Modes
- Reduced Cycle Times
- Simple Part Programming & Operation
- Extreme Reliability & Maintenance Friendly
- Higher Performance For Greater Profit
- Complete Fanuc System - Control, Drives & Servos
- Digital Servo Technology

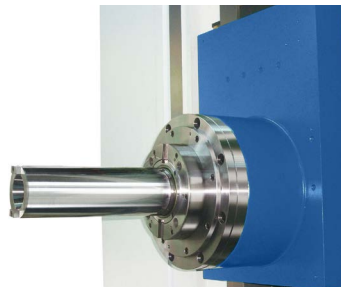
AUTOMATIC TOOL CHANGER (OPTION)

- Standard chain type with 60-tool magazine, provides safety and stable exchange. This enhances machining flexibility and efficiency.
- Loading and unloading tools at the rear of the ATC is available



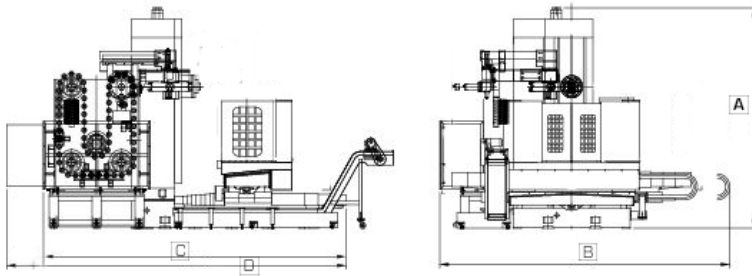
SPINDLE

- Spindle (4.13" diameter) is mounted on high precision NN-type dual roller bearings
- Equipped with a 2-step gear box for automatic spindle speed change
- Oil cooler for the lubrication circuit and temperature control as a standard feature
- Spindle travel (Z-axis travel) is 21.6"
- Air curtain for the spindle effectively prevents fluid or chips from entering the spindle
- Hydraulic clamping for Z-axis



DIMENSIONS AND SPECIFICATIONS

HBMC-4 CNC HORIZONTAL BORING MILL



MODEL	A	B	C	D
HBMC-4	142"	193"	200"	226"

HBMC-4 CNC

SPECIFICATIONS		Standard	Metric
SPINDLE			
Diameter of Spindle		4.3"	110mm
Taper of Spindle		CAT 50	
Number of Spindle Speeds (2 Programmable Stops)		Infinitely Variable	
Spindle Speed Range		5 - 2500 RPM	
Spindle Nose to Table Center		-6.8" - 58"	-175mm - 1475mm
Center Line of Spindle to Table Top		0 - 55"	0 - 1400mm
TRAVELS			
Headstock Vertical Travel - Y Axis		55"	1400mm
Cross Travel of Table - X Axis		78.75	2000mm
Saddle Travel. Longitudinal - W Axis		45.2"	1150mm
Spindle Travel - Z Axis		19.6"	500mm
FEEDS			
Number of Feeds		Infinitely Variable	
Range of Feeds (X,Y, W Axis)	.04 - 236 IPM	Rapid Traverse (X,W Axis)	590 IPM
Range of Feeds (Z Axis)	.04 - 196 IPM	Rapid Traverse (Y Axis)	472 IPM
		Rapid Traverse (Z Axis)	196 IPM
ROTARY TABLE			
Size of Table		39.4" x 39.4"	1000 x 1000mm
Table Index		360 degrees	
Increments		1 degree	
Table T-Slot Width		.875"	22mm
Maximum Table Load		6,600 lbs	3,000kg
MAIN SPINDLE MOTOR		30 HP	22 kw
ELECTRICS			
		220/3/60	
SERVO LINEAR AXIS FEED MOTOR		(X,W,Z Axis) 9.3HP 7 kw	(Y Axis) 8HP
SERVO AXIS FEED MOTOR		(B Axis) 5.3HP	4 kw
DIMENSIONS (L X W X H)		193" x 200" x 142"	4900 x 5100 x 3605mm

WARRANTY: A copy of Summit Machine Tool LLC's standard written warranty is attached to each Summit Machine. Call or write to Summit for a copy or for further information concerning Summit's standard warranty. All purchases are subject to Summit's standard written warranty. Specifications are subject to change without notice.

POINT OF OPERATION GUARDING is the responsibility of the end user. For information contact your local OSHA office.

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